Leader Light s.r.o.
M.Gorkeho 33
SK-052 01 Spisska Nova Ves
Slovakia
www.leaderlight.eu

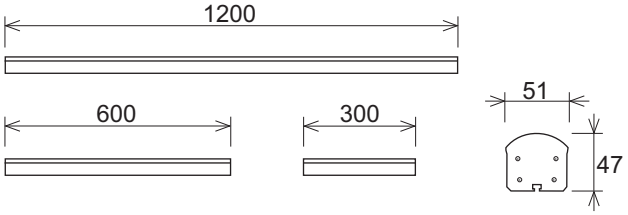
USER MANUAL

LL LED LINE Z-POWER DC24V

LL38 100	LL38 104	LL38 108	LL38 200
LL38 204	LL38 220	LL38 224	LL38 240
LL38 244	LL38 300x	LL38 310x	LL38 315x
LL38 320x	LL38 330x	LL39 100	LL39 104
LL39 108	LL39 200	LL39 204	LL39 220
LL39 224	LL39 240	LL39 244	LL39 300x
LL39 310x	LL39 315x	LL39 320x	LL39 330x

COMPLIMENTS ON YOUR PURCHASE!

All dimensions are in milimeters



Following items are included:

- LL LED LINE with 5 m cable and 6 PIN LINE connector	1 pc.
- Bracket	1 pair
- User manual	1 pc.

Additional items needed:

- LED Driver
- Power supply 24V
- DMX controller
- Mounting accessories LL41 100, LL41 110, LL41 120

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ENVIRONMENT

Do not throw away the appliance with the normal household waste at the end of its life, but hand it in at an official collection point for recycling. By doing this, you help to preserve the environment.

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01 SAFETY INFORMATION

WARNING!!!
Carefully read before installing, powering or servicing.
Nothing to do if anything misunderstand!
Only for professional use!

01.1 Risk of eyes damage

- Do not look directly into LED lamps.
- Do not look into light beam from a distance of less than 40 cm (16 inches)!

01.2 Protection from electric shock

- Shut down power before installation or maintenance.
- Luminaries, Driver and recommended power supply must be installed by a qualified professional in accordance with relevant local codes.
  Only acceptable source of AC power and frequency that complies with local buidling and electrical codes to use.
- Do not use or do not connect the products if the power cable, power plug or fixtures are any way damaged, wet, or if they are overheating.
- Do not modify, alter, or attempt to service the LeaderLight appliance.
  Doing so will void the warranty.
- Before removing or installing any cover or part of appliance disconnect it from AC power.

01.3 Fire prevention

- Follow all safety consideration.
- Thermostatic switches or fuses never to bypass.
- Device never shield. Around the axis of the fitting (180°) must be maintained space for cooling. Minimum distance from the surrounding objects must be 50mm (2 in.) (figure 3.1).
- LEDs never direct cover with filters or other materials.
- Allowing max. ambient temperature is 40°C (104°F).
- Luminaries never use without mounting brackets. The housing never install directly to the surface.

02 PRODUCT SPECIFICATION

02.1 Technical Specification

Lamp type:

OneChip RGB
LINE 50:
1200mm: 24xRGB 3x1W P5 (Red, Green and Blue)
600mm: 12xRGB 3x1W P5 (Red, Green and Blue)
300mm: 6xRGB 3x1W P5 (Red, Green and Blue)
LINE 100:
1200mm: 12xRGB 3x1W P5 (Red, Green and Blue)
600mm: 6xRGB 3x1W P5 (Red, Green and Blue)

SoloChip
RGB:
1200mm: 12xR+12xG+12xB P4 (Red, Green and Blue)
600mm: 6xR+6xG+6xB P4 (Red, Green and Blue)
AWB:
1200mm: 12xA+12xW+12xB P4 (Amber, White - 6300K and Blue)
600mm: 6xA+6xW+6xB P4 (Amber, White - 6300K and Blue)

OneColour R/G/B/A/W/N
LINE 50:
1200mm: 24x R/G/B/A/W/N P4
600mm: 12x R/G/B/A/W/N P4
300mm: 6x R/G/B/A/W/N P4
LINE 100:
1200mm: 12x R/G/B/A/W/N P4
600mm: 6x R/G/B/A/W/N P4
(Red or Green or Blue or Amber or White or Neutral White)

Lifetime: Long 60 000 hrs 60% degradation

Optic: **OneChip:** 35mm standard 25°, optional: 40° - on request
SoloChip, OneColour:
25mm standard 25°, optional: 10°, 40° and 15°x90° - on request

Control data Input: 3 channels 24V dimming, OneColour: 1 channel 24V dimming

Input power:
OneChip RGB
24xRGB: max 100W
12xRGB: max. 50W
6xRGB: max. 25W
SoloChip RGB/AWB
12xR(A) + 12xG(W) + 12xB: max: 50W
6xR(A) + 6xG(W) + 6xB: max: 25W
OneColour R/G/B/A/W/N
24xR/G/B/A/W/N: max. 34W
12xR/G/B/A/W/N: max. 17W
6xR/G/B/A/W/N: max. 8,5W

DC Power Connection: 24V DC 5m cable with 6pin LINE connector

Net weight: 1200mm/600mm/300mm: 2kg/1,5kg/1kg

Dimensions LxWxH: 1200/600/300mm x 51mm x 47mm without bracket

IP: Indoor: IP43, Outdoor: IP65

Ambient temp. (Ta): Maximum 40°C

Cooling: Conventional

Materials and finish: Housing: powder-painted anodized aluminium RAL9006 (other colours on request)
Cover: clear or frosted PMMA

Installation: Any position for ceiling, wall and surface-mounting

03 INSTALLATION

03.1 Unpacking

- Unpack carefully.
- This is electronic equipment and should be handled carefully.
- Damaged delivered package or if are any mechanical parts broken – it must be claim immediately by the transport company.
  Photo pictures as evidence are valuable for future claim.

03.2 Physical installation

- Loading capacity of bearing area has to be at least 10 times the weight of all device clusters (luminaries, clamps, cables, ...).
- Heigrbreadth from combustible materials is 0,5m.

03.3 Electrical installation

- **To tackle all Safety Information- 01!**
- You can suffer a dangerous electric shock by using a high voltage AC/DC power supply - by touching the AC/DC power supply wires inside LL LED LINE!
- LL LED LINE can be operated in two ways:
  - 03.3.1 LL LED LINE connecting to DC POWER SUPPLY - for switch ON/OFF luminaries
  - 03.3.2 LL LED LINE connecting to LL LED DRIVER - for intensity and colour control

03.3.1 Connecting to DC power supply (Figure Nr. 1.1)

- LL LED LINE must be connected to the device- MW power supply IN:100-260AC/ OUT: 24V.
- It is not necessary to open fixture before connecting to MW power supply.

AC Power Supply Cord plug connections to MW Power supply:

Symbol	Pin	Wire Colour	Screw (US)
L	live	brown	yellow or brass
N	neutral	blue	silver
⏚	ground (earth)	yellow/green	green

03.3.2 Connecting to LL LED DRIVER (Figure Nr. 1.2)

- For intensity and colour control is necessary connection with LL LED DRIVER.
- It is not necessary to open fixture before connecting to LL LED DRIVER.
- Before installing of LL LED DRIVER carefully read USER MANUAL for LL LED DRIVER.

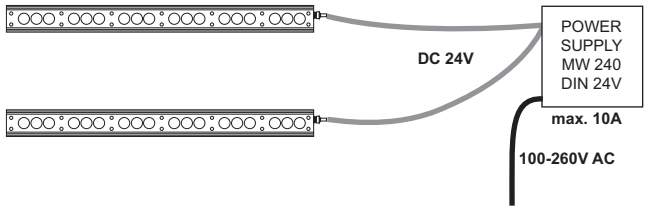
Order code	Product name	Current
LL38 100	LL LED LINE 50 OneChip 24 RGB IP65	3x1,4A
LL38 104	LL LED LINE 50 OneChip 12 RGB IP65	3x0,7A
LL38 108	LL LED LINE 50 OneChip 6 RGB IP65	3x0,35A
LL38 200	LL LED LINE 100 OneChip 12 RGB IP65	3x0,7A
LL38 204	LL LED LINE 100 OneChip 6 RGB IP65	3x0,35A
LL38 220	LL LED LINE 100 SoloChip 12 RGB IP65	3x0,7A
LL38 224	LL LED LINE 100 SoloChip 6 RGB IP65	3x0,35A
LL38 240	LL LED LINE 100 SoloChip 12 AWB IP65	3x0,7A
LL38 244	LL LED LINE 100 SoloChip 6 AWB IP65	3x0,35A
LL38 300x	LL LED LINE 50 OneColour 24.. IP65	1x1,4A
LL38 310x	LL LED LINE 50 OneColour 12.. IP65	1x0,7A
LL38 315x	LL LED LINE 50 OneColour 6.. IP65	1x0,35A
LL38 320x	LL LED LINE 100 OneColour 12.. IP65	1x0,7A
LL38 330x	LL LED LINE 100 OneColour 6.. IP65	1x0,35A
LL39 100	LL LED LINE 50 OneChip 24 RGB	3x1,4A
LL39 104	LL LED LINE 50 OneChip 12 RGB	3x0,7A
LL39 108	LL LED LINE 50 OneChip 6 RGB	3x0,35A
LL39 200	LL LED LINE 100 OneChip 12 RGB	3x0,7A
LL39 204	LL LED LINE 100 OneChip 6 RGB	3x0,35A
LL39 220	LL LED LINE 100 SoloChip 12 RGB	3x0,7A
LL39 224	LL LED LINE 100 SoloChip 6 RGB	3x0,35A
LL39 240	LL LED LINE 100 SoloChip 12 AWB	3x0,7A
LL39 244	LL LED LINE 100 SoloChip 6 AWB	3x0,35A
LL39 300x	LL LED LINE 50 OneColour 24..	1x1,4A
LL39 310x	LL LED LINE 50 OneColour 12..	1x0,7A
LL39 315x	LL LED LINE 50 OneColour 6..	1x0,35A
LL39 320x	LL LED LINE 100 OneColour 12..	1x0,7A
LL39 330x	LL LED LINE 100 OneColour 6..	1x0,35A

04 MAINTENANCE

- **To tackle all Safety Information- 01!**
- Damage caused by inadequate cleaning or maintenance is not coverd by warranty.
- Regular cleaning is demand (dust, dirt, ...).

Maintenance policy:
- Unplug mains befor maintenance and at least 10 minutes cool off.
- Cleanup dust from cover.
- Use dampy duster (warm watter).
- Before reinstalling to check failure-free state – no wet parts!

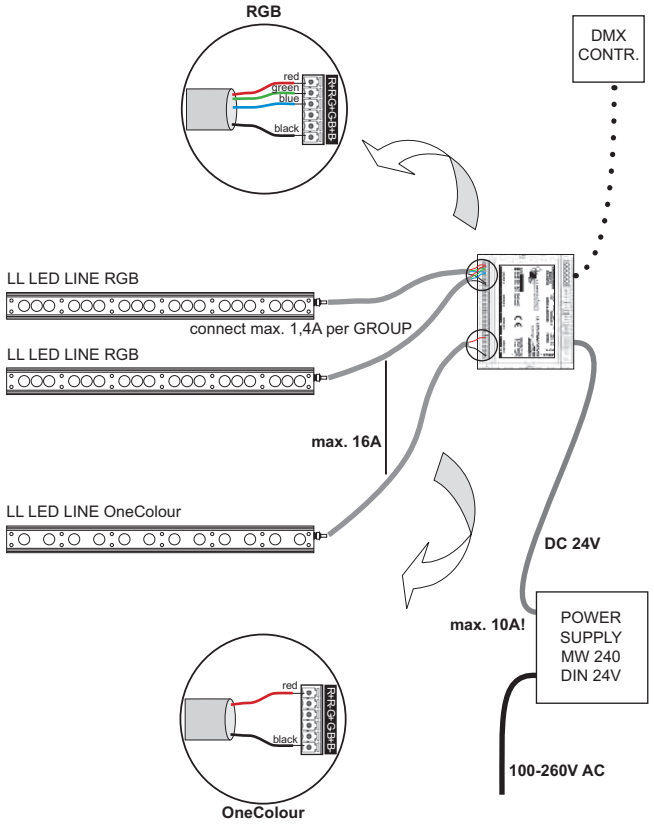
LL LED LINE connecting to DIN POWER SUPPLY.



LL LED LINE connecting to DIN POWER SUPPLY enables to switch ON/OFF luminaries.

1.1

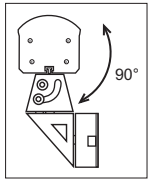
LL LED LINE connecting to PWM DRIVER and DIN POWER SUPPLY.



LL LED LINE connecting to PWM DRIVER and DIN POWER SUPPLY enables to switch ON/OFF luminaries and in addition intensity and colour control by DMX controller.

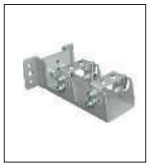
1.2

MOUNTING ACCESSORIES



Mounting on wall is easy using various adjustable wall brackets. Seen below.

LL41 100
Single adjustable wall bracket

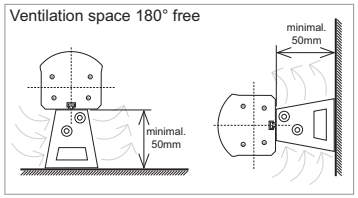


LL41 110
Double adjustable wall bracket

LL41 120
Triple adjustable wall bracket

2.1

INSTALLATION

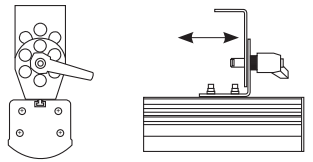


Minimal mounting distance from surface

3.1

WARNING!!!

Non-minimum distance and / or non-use the original brackets is at your own risk!



Sliding mounting brackets

If you have any question please, contact support@leaderlight.sk